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15	UNITED STATES DISTRICT COURT	
16	CENTRAL DISTRICT OF CALIFORNIA, WESTERN DIVISION	
17	CH ₂ O, INC.,	Case No. CV-13-8418 JAK (GJSx)
18	Plaintiff,	CH ₂ O, INC.'S OPPOSITION TO
19	V.	DEFENDANTS' MOTION IN LIMINE PRECLUDING CH ₂ O'S
20	MERAS ENGINEERING, INC.;	RELIANCE ON THE DOCTRINE OF EQUIVALENTS (D.I. 255)
21	HOUWELING'S NURSERIES	
22	OXNARD, INC.; HNL HOLDINGS LTD.; HOUWELING UTAH	[REDACTED VERSION]
23	OPERATIONS, INC.; and HOUWELING'S NURSERIES LTD.,	Date: May 16, 2016 Time: 3:00 PM
24	,	Courtroom: 750
25	Defendants.	Hon. John A. Kronstadt
26		
27		
28		S' MOTION <i>IN LIMINE</i> DDECLLIDING CH.O

CH₂O'S OPPOSITION TO DEFENDANTS' MOTION *IN LIMINE* PRECLUDING CH₂O'S RELIANCE ON THE DOCTRINE OF EQUIVALENTS Case No. CV-13-8418 JAK (GJSx)

I. INTRODUCTION

Defendants' motion *in limine* to preclude CH₂O's reliance on the doctrine of equivalents mischaracterizes the prosecution history and ignores the "tangential relation" and "foreseeability" exceptions to the *Festo* prosecution history estoppel doctrine, as well as the opinion of CH₂O's technical expert that the doctrine should not apply. By contrast, Defendants have no expert opinion on any of these issues, and present only attorney argument.¹

The doctrine of equivalents may play an important role at trial because, in their infringing systems, Defendants have apparently made a trivial substitution of ammonium molybdate for sodium molybdate. Yet as Dr. Hermanowicz explains in detail in his expert report, ammonium molybdate performs the same function in the same way to achieve the same result as sodium molybdate, and it therefore infringes under the doctrine of equivalents. Accordingly, granting Defendants' motion at this stage would sanction Defendants' trivial change and permit them to continue infringing. For these reasons, as set forth in greater detail below, CH₂O respectfully requests that the Court not only deny Defendants' motion but also preclude Defendants from presenting any testimony or argument at trial regarding prosecution history estoppel.

II. ARGUMENT

1. Legal Standards

Prosecution history estoppel prevents a patentee from recapturing under the doctrine of equivalents subject matter surrendered during prosecution to obtain a patent." *Cross Med. Prods. v. Medtronic Sofamor Danek, Inc.*, 480 F.3d 1335, 1341

¹ Defendants' "motion *in limine*" is instead an improper and untimely motion for partial summary judgment as it raises an issue of law (the applicability of prosecution history estoppel) and seeks to dispose of part of one of CH₂O's claims. It should be denied on this basis alone. Moreover, as detailed herein, Defendants' argument is incorrect as a matter of law, and completely unsupported by any evidence or opinion testimony.

(Fed. Cir. 2007); see Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co., Ltd., 535 U.S. 722, 738 (2002). For amendment-based estoppel, where the applicant "narrowed the claim in response to a rejection, courts may presume the amended text was composed with awareness of this rule and that the territory surrendered is not an equivalent of the territory claimed." Deering Precision Instr., L.L.C. v. Vector Distrib. Sys., Inc., 347 F.3d 1314, 1325 (Fed. Cir. 2003). In order to rebut the presumption, "the patentee must show that at the time of the amendment one skilled in the art could not reasonably be expected to have drafted a claim that would have literally encompassed the alleged equivalent." Id. (internal quotation marks omitted). The patentee may do so by showing that (1) "the equivalent may have been unforeseeable at the time of the amendment;" (2) "the rationale underlying the amendment may bear no more than a tangential relation to the equivalent in question;" or (3) "there may be some other reason suggesting that the patentee could not reasonably be expected to have described the insubstantial substitute in question." Id.

2. Defendants Misrepresent the Prosecution History of the '470 Patent

During prosecution of the '470 patent, the applicants made several amendments to the claims in order to overcome rejections. On December 10, 2003, the applicants combined several dependent claims into the existing independent claim. [Ex. 35 (CH2O_00039-40).] Specifically, they added the limitations from original dependent claims 9 and 16, which were directed to the inertness and antiscalant properties of the second component of the mixture, to the independent claim. [*Id.*] They also added the limitation of using sodium molybdate as a catalyst. [*Id.*]

In their remarks explaining the amendments, the applicants stated:

The second solution is acidic to convert the sodium chlorite into chlorine dioxide but it remains unaffected in the reacted mixture. As a result, the second solution functions as a mineral antiscalant in the water system. Claim 25 also specifies the use of sodium molybdate as a catalyst to enhance conversion of the sodium chlorite into

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chlorine dioxide. *These just discussed features* are not disclosed by either Christensen et al or Schroeder et al. Accordingly, without these teaching in the prior art, there is an insufficient factual basis for a rejection under 35 USC § 103(a).

[*Id.* (emphasis added).] In other words, they identified a number of features they had added to the claims, only one of which was sodium molybdate. Defendants argue in their motion that "[t]he Examiner allowed new claim 25 over the references because [*sic*] arguments relating to the addition of the recitation of using 'sodium molybdate' as a catalyst." [Mot. at 7.] However, as is clear from the actual arguments above, the applicants provided several reasons why the newly-amended claim was patentable, only one of which involved the addition of molybdate.

3. The "Tangential Relation" Exception to the *Festo* Doctrine Applies Here

The Federal Circuit has interpreted "no more than a tangential relation" to mean "peripheral, or not directly relevant, to the alleged equivalent." *Festo Corp v Shoketsu Kinzoku Kogyo Kabushiki*, 344 F.3d 1359, 1369. "[T]he inquiry into whether a patentee can rebut the *Festo* presumption under the 'tangential' criterion focuses on the patentee's objectively apparent reason for the narrowing amendment." *Id.* Thus, "whether an amendment was merely tangential to an alleged equivalent necessarily requires focus on the context in which the amendment was made; hence the resort to the prosecution history." *Id.* at 1370.

In Regents of University of Cal. v. Dakocytomation Cal., Inc., 517 F.3d 1364, 1378 (Fed. Cir. 2008) ("Dako"), the Federal Circuit reversed the district court's application of prosecution history estoppel to bar the patentee from asserting the doctrine of equivalents despite the fact that "the patentees did amend the claim in order to distinguish the invention over the prior art." The patentee claimed a "blocking nucleic acid," while the accused product employed a "peptic nucleic acid," which was

not literally the same thing. *Id.* at 1376. The applicants had amended their claims to add the "blocking nucleic acid" to overcome a rejection in light of three references. *Id.* at 1378. Those three references either did not disclose any kind of "blocking" or any method of "detection of unique sequences." *Id.*

The Federal Circuit found that "[t]he prosecution history therefore reveals that in narrowing the claim to overcome the prior art rejections, the focus of the patentees' arguments centered on the method of blocking—not on the particular type of nucleic acid that could be used for blocking." *Id.* In addition, "none of the cited references concerned the type of nucleic acid that could perform the blocking, or mentioned the accused equivalent." *Id.* The court held that "appellants have met their burden of showing that the amendment did not surrender the equivalent in question because the narrowing amendment was only tangential to the accused PNA equivalent, *i.e.*, the peptide nucleic acid." *Id.*; *see also Primos, Inc. v. Hunter's Specialties, Inc.*, 451 F.3d 841, 848-850 (Fed. Cir. 2006) (affirming district court finding that prosecution history estoppel did not bar application of doctrine of equivalents because amendments to claimed "plate" limitation were "merely tangential to the contested element in the accused device," i.e., a dome, since both the accused equivalent and the amended claim language encompassed a common "differentially spaced" layout).

Other district courts, citing *Dako*, have reached similar conclusions. In *Alfred E. Mann Foundation for Scientific Research v. Cochlear Corporation*, CV 07-8108 FMO (SHx), 96 F. Supp. 3d 1028 (C.D. Cal. 2015), a case involving cochlear implant technology, the accused infringer argued that during prosecution the patentee narrowed a claim of the patent-in-suit by adding a "displaying" limitation in order to overcome prior art. *Id.* at 1044. The patentee responded that the amendment focused on "the displaying *capability* of the invention, not on any particular *type* of information that must be displayed." *Id.* (emphasis added). Judge Olguin held that "the Applicants' addition of the 'displaying' limitation to claim 10 was directed

towards overcoming the pacemaker prior art that lacked a display...not on the particular type of information that must be displayed." *Id.* at 1045. The court further held that "the 'objectively apparent reason' for the amendment was to overcome the pacemaker prior art, which did not include the real-time display of data." Id. In addition, the accused infringer argued that estoppel should apply because of the Examiner's statement that "the prior art does not show or suggest the measuring of the electrode voltage for external display." Id. at 1046. However, Judge Olguin held that "[t]he Examiner's Notice of Allowance cannot, by itself, give rise to disavowal of claim scope." Id. (citing Salazar v. Procter & Gamble Co., 414 F.3d 1342, 1347 (Fed. Cir. 2005)). Furthermore, the court held the examiner's statement pertained to the external display, not "requiring the display of a voltage value." *Id.*; see also American Patent Development Corp., LLC v. Movielink, LLC, 637 F. Supp. 2d 224, 233 (D. Del. 2009) (finding presumption of prosecution history estoppel rebutted when "the patentee's response to the examiner was, in fact, focused on how and where the limiting data is transmitted, not on its actual content" and that any "statements that touch on the actual content of the limiting data...were largely incidental to the core issue of how the data is transmitted"); Cerner Corp. v. Visicu, Inc., 667 F. Supp. 2d 1062, 1073-74 (W.D. Mo. 2009) (finding applicants overcame presumption of prosecution history estoppel because in amending the claim, the applicants were "not distinguishing prior art on the grounds that it disclosed a database physically housed outside the remote command center, but rather that the invention was computer-driven instead of human-based" and "the narrowing amendment was peripheral, or not directly related, to the alleged equivalent."); see also Intervet Inc. v. Merial Ltd., 617 F.3d 1282 (Fed. Cir. 2010) (finding certain amendments tangential); Funai Elec. Co., Ltd. v. Daewoo Electronics Corp., 616 F.3d 1357 (Fed. Cir. 2010) (holding cancellation of claims tangential).

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Here, as in *Dako* and its progeny, the amendment by which the CH₂O applicants added "using sodium molybdate as a catalyst" was merely tangential to the equivalent because it was only one element in a larger amendment and because none of the prior art used any kind of molybdate as a catalyst to convert sodium chlorite into chlorine dioxide.

First, as in *Dako* and its progeny, none of the references cited by the examiner in the prior art—Christenson, Vaska, Ringo, Schroeder, or Turcotte—discloses using molybdate as a catalyst. [*See* Ex. 12 (Bubnis Dep. Tr.) at 7:24-8:6 (Defendants' expert conceding that no reference, including the aforementioned discloses using molybdate as a catalyst).] Put differently, no reference describes using molybdate *in general* such that CH₂O had to claim using *sodium* molybdate as a catalyst in order to obtain allowance of its claims. The novelty of the CH₂O applicants' amendment lay in using *any* sort of molybdate as a catalyst, not in specifically using *sodium* molybdate, much as the novelty of the *Dako* applicants' amendment lay centered on the method of blocking, not on the particular type of nucleic acid that could be used for blocking. Dr. Hermanowicz provided further support for this argument in his expert report:

I have reviewed the Christensen and Schroeder references and determined that neither discloses catalyzing a reaction to enhance production of chlorine dioxide, let alone the claimed step of "using sodium molybdate as a catalyst to enhance conversion of sodium chlorite into chlorine dioxide." Christensen mentions sodium molybdate as a corrosion inhibitor [U.S. Patent No. 5,424,032 at 4:53-61], but does not indicate that molybdate of any type would be used to catalyze a reaction, much less to enhance conversion of sodium chlorite into chlorine dioxide like that claimed. Schroeder mentions neither molybdate nor catalysis for the production of chlorine dioxide.

[Ex. 2 (Hermanowicz Infr. Rpt.) at ¶ 220.] Dr. Hermanowicz further explained how the use of molybdate in general, not necessarily *sodium* molybdate, catalyzes the

chlorine dioxide reaction, since "[i]f any other molybdate salt were to be used (such as potassium molybdate or ammonium molybdate) as the catalyst, it would still dissociate into molybdate ions with corresponding counter-ions." [Id. at ¶ 221.]

Second, in response to the examiner's rejection, the applicants consolidated a number of dependent claims into the single independent claim that ultimately issued. Thus, in addition to the sodium molybdate limitation, the applicants added several other limitations, including original dependent claims 9 and 16, which were directed to the inertness and antiscalant properties of the second component of the mixture. As Dr. Hermanowicz observes, "[t]he recitation of sodium in the step of 'using sodium molybdate as a catalyst' was not required to overcome the cited prior art. In fact, the applicants cited several features to distinguish the prior art:"

The second solution is acidic to convert the sodium chlorite into chlorine dioxide but it remains unaffected in the reacted mixture. As a result, the second solution functions as a mineral antiscalant in the water system. Claim 25 also specifies the use of sodium molybdate as a catalyst to enhance conversion of the sodium chlorite into chlorine dioxide. These just discussed features are not disclosed by either Christensen et al or Schroeder et al. Accordingly, without these teaching in the prior art, there is an insufficient factual basis for a rejection under 35 USC § 103(a).

[Ex. 2 (Hermanowicz Infr. Rpt.) at ¶ 221 (citing CH2O_000040) (emphasis added).] Thus, at best, the amendment that resulted in allowance pertained only in part to the sodium molybdate feature of the invention.

Third, elsewhere in the file history, the examiner recognized that using sodium molybdate to inhibit corrosion in a water system was known in the art and that, in addition, it would have been obvious to use sodium molybdate as a catalyst in such a system. [Ex. 35 (CH2O_00076 (Paragraph 11 of Office Action)) ("Christensen et al. disclose...that it is known in the art of water treatment to utilize sodium

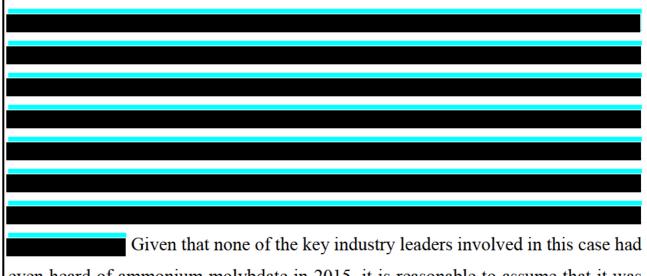
molybdate...to aid in inhibiting corrosion in a process water system. It would have been obvious to one skilled in the art to modify the method of Schroeder et al. by including sodium molybdate in the second solution or catalyst")).] Thus, it cannot be the case that CH2O obtained allowance by amending the claims to recite using sodium molybdate explicitly as the catalyst because the examiner already considered it obvious.

4. The "Foreseeability" Exception to the Festo Doctrine Applies Here

In addition, under *Festo*'s "foreseeability" prong, "after-arising" equivalents or "later developed technology" are not considered foreseeable equivalents and therefore fall within the scope of the claims. *Festo IX*, 344 F.3d at 1369. The classic cases of after-arising equivalents, according to the Federal Circuit, are "transistors in relation to vacuum tubes, or Velcro® in relation to fasteners." *Id*. Courts typically consider expert testimony and other extrinsic evidence pertaining to the underlying factual inquiry of foreseeability. *Id*.

Here, ammonium molybdate was not a foreseeable equivalent at the time the

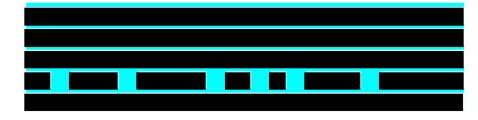
patent was filed because no one in the agricultural field had heard of it, let alone used it, until 2015.



even heard of ammonium molybdate in 2015, it is reasonable to assume that it was not foreseeable 15 years earlier, when the patent was filed. As such, the use of ammonium molybdate for catalysis purposes is an after-arising equivalent, an exception to prosecution history estoppel.

5. Defendants' Experts Have Presented No Testimony about Prosecution History Estoppel, and Defendants Should Therefore Be Precluded from Presenting any Testimony or Argument Regarding the Issue at Trial

Finally, neither Meras nor Houweling's has advanced any type of prosecution history estoppel defense, not in their Answers, nor in their discovery responses, nor in their technical expert's reports. In addition, Defendants' expert report does not present any discussion whatsoever rebutting CH₂O's doctrine of equivalents argument regarding ammonium molybdate, or, for that matter, any discussion at all regarding equivalents, full stop. [Ex. 12 (Bubnis Dep. Tr.) at 271:23-273:7] Defendants' sole reference to ammonium molybdate in their discovery responses are the following three sentences responding to CH₂O's Interrogatory No. 4:



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[Ex. 38 (Houweling's Resp. to Interrog. No. 4) at 8.]

CH₂O repeatedly asked Defendants to supplement their response, but Defendants declined, saying instead that their expert reports would cover all of their noninfringement positions. [Ex. 39 (2/2/2016 Email thread btw. Rosen and Golden-Heybl) at 1.] The only other mention Defendants have made of prosecution history estoppel was the following single sentence in an August email regarding Houweling's switch from sodium molybdate to ammonium molybdate: "As you are surely aware, CH₂O is precluded by prosecution history estoppel from claiming equivalents to sodium molybdate." [Ex. 40 (8/20/15 Email to Marchese fr Heybl).] Defendants never elaborated on this statement or provided any discovery of any kind about it. Accordingly, Defendants have waived any right to present at trial a doctrine of equivalents defense, a prosecution history estoppel defense, or a prosecution history estoppel defense premised on sodium molybdate as an equivalent, and they should be precluded from doing so.

III. CONCLUSION

For all the reasons set forth above, CH₂O respectfully requests that the Court not only deny Defendants' motion but also preclude Defendants from presenting any testimony or argument at trial regarding prosecution history estoppel.

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Dated: May 9, 2016 FISH & RICHARDSON P.C.

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Attorneys for Plaintiff, CH₂O, INC.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the above and foregoing document has been served on May 9, 2016 to all counsel of record who are deemed to have consented to electronic service via the Court's CM/ECF system. Any other counsel of record will be served by electronic mail and regular mail.

> /s/ Christopher S. Marchese Christopher S. Marchese marchese@fr.com